

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

KNOWLEDGE ASSET 2021-22

Name: **Dr.A.GANGADHARA**
Designation: Assistant Professor
Department: Humanities and Sciences
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Experience (in years): 11 Teaching: 10 Research: 11 Others (if any, specify):

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D	2017	Organic & Medicinal Chemistry
2	M.Sc	2011	Pharmaceutical Chemistry
4	B.Sc	2009	Biochemistry, Zoology, Chemistry

2. Teaching and Learning:

2.1. Teaching Interests:

Engineering Chemistry, Environmental Chemistry, Medicinal Chemistry, Spectroscopy, Polymer Chemistry, Water and Soil Analysis.	Organic Chemistry, Instrumental Methods of Analysis, Industrial Chemistry, Drug design, Inorganic Chemistry.
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2.2. Novel Teaching & Learning Techniques adopted: Concept maps

- Mind maps
- Think-Pair-Share
- Cross-Words
- Project based learning
- Word Search
- Plickers
- Edmodo
- Word Scramble
- POGIL
- Flipped classroom
- Presentations
- Kahoot

2.3. Involvement in curriculum updating / Design: Member BoS Chemistry

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- Listening Music
- Singing
- Reading Books

- Exploring new methods of teaching

3.2. CCA/ECA Organized: Nil

3.3. CCA/ECA participated: Nil

3.4. Counseling and Mentoring Activity: Nil

3.5. Committees involved in:

Department level:

- Examination cell incharge & R & D cell incharge
- National Education Policy - Mentor

Institute Level: Admission committee member

4. Conference / Workshop / Seminar / Guest Lectures :

4.1 Conducted:

- Conducted one week faculty development programme on “Recent Advances & Research Avenues in Material Science” (RRM-2020) organized by Department of Chemistry, School of Advanced Sciences, Kalasalingam Academy of Research and Education on June 08-14, 2020.

4.2 Attended:

- Presented paper in the International conference on Recent Advances in Technology, Engineering and Science (ICRATES’16) on 27th & 28th July, 2016 at C. Abdul Hakeem College of Engg. And Tech., Melvisharam, Vellore.
- Presented paper in the International Seminar on “3D –Approaches in Combinatorial Chemistry: Challenges and Perspectives” organized by Arulmigu Kalasalingam College of Pharmacy, Krishnankoil, Tamilnadu in association with Dr.M.G.R. Medical University on 28th Feb 2018.
- Presented paper in “International Conference on Recent Discoveries of Diabetic Biomarkers and Challenges Ahead” Organized by the School of Life Sciences, B.S.Abdur Rahaman University, Vandalur, Chennai India on 2nd and 3rd, March -2015. Sponsored by ICMR and DST (SERB).
- Presented paper in “International Conference on Emerging Trends in Chemical Sciences (IETC-2013)” held in the VIT University during December 5-7th 2013, organized by the Chemistry Division, School of Advanced Sciences, VIT University, Vellore.
- Presented poster in “First Euro – India International conference on diabetes (EICD-2012) held at kottayam, kerala, India from 09th-11th April 2012. Paper: Review on novel 2,4-thiazolidinediones as a potential therapeutic agents for type-2 diabetes.
- Presented Paper in 4th National Seminar on Technologically Important Crystalline and Amorphous Solids (TICAS-2018) organized by the Department of Physics, Kalasalingam Academy of Research and Education, Krishnankoil held during 2nd & 3rd March 2018.
- Presented Paper in Fifth National Conference on Advanced Functional Materials and (NCAFMA-2017) organized by the Department of Chemistry, Kalasalingam University, Tamilnadu, India from 30 & 31st march-2017.
- Presented paper in “National Symposium on Biodiversity (NSBIO 2015)” sponsored by DST-SERB held from 18 to 20th February 2015, Organized by the department of zoology, Thiruvalluvar University, Vellore, Tamilnadu.
- Presented paper in National Conference on “Frontiers in Chemistry and Environment”(NCFCE-2015) held on 27-28th March 2015, organized by the Department of Chemistry, C.Abdul Hakeem College of Engineering and Technology, Melvisharam, Vellore, Tamilnadu.
- Presented poster in “National Conference on Challenges in Biomaterials Research (NCCBMR-2013)” organized by VIT University, Vellore-632014, Tamilnadu, India on 23-24th December 2013.

- Presented paper in UGC – National Seminar on “Recent Trends in Organic Chemistry (NSRTOC)” organized by the Department of Chemistry, S.V.Arts College, TTD’s, Tirupati on 19th December, 2013.
- Presented paper in National Seminar on “Current Research Trends and Developments in Chemical Sciences – 2013 (CRTDS – 2013) held during 9th and 10th March, 2013 at P.V.K.N. Government College, Chittoor-517002. Andhra Pradesh.
- Participated in one day “National Seminar on Recent Trends in Catalysis and Fine Chemicals Synthesis - A Green Approach” organized by VIT Chennai on 20th April 2012.
- Presented poster in “One Day National Seminar on New Innovative Ideas in Science and Technology” organized by Karur College of Engineering, Karur-Tamil Nadu during 2nd March 2012.
- Presented poster in symposium at the medical hackathon “CAMTech – India Medical Hackathon”, organized by the International Consortium on Affordable Medical Technologies - CAMTech on Nov 26th, 2012 at VIT University, Vellore, India.
- Presented paper in National Seminar on “Indigenous Nanomaterials Development for Industrial Applications” (INDIA) on february 27-28th, 2012, organized by Association of Nanoscience & Nanotechnology Aspirants [ANNA] Centre for Nanoscience and Technology, Anna University, Chennai.
- Participated in “International Conference on Recent Trends in Advanced Materials (ICRAM – 2012)” held at VIT University, Vellore during 20-22nd February 2012.
- Presented paper in National Conference on “Natural Product Research for Health and BioPharma industry” held on 25-26th March 2011, organized by Department of Biotechnology, Kumaraguru College of Technology, Coimbatore, Tamilnadu.
- Presented paper in National Seminar on “Enhancement of Quality in Research Publications and Recent Research in Water, Alternative Energy Resources, Materials and Health (CURIE 2011) held on 15-16th December 2011 by Auxillium Research Cell and Department of Chemistry, Auxillium College (Autonomous), Vellore, Tamilnadu.
- Participated in “First conference on Youth and the Environment (ENVIRO-2011)” held on March 11, 2011 at GRD Auditorium, PSGCAS, Coimbatore, Tamil Nadu.
- Participated in Paper presentation competition conducted by the chemistry division in the celebration of 25th National Science Day 2011 held at VIT University, Vellore-632014 on 28th February 2011.
- Presented paper in National Conference on “Recent Advancements in Nanomaterials for Sensor Applications” on 8-9th March 2010, organized by Department of Bioelectronics and Biosensors Alagappa University, Karaikudi – 630003.
- Participated in workshop on “Drug Discovery Research to Preclinical and Clinical Developments” on 5-6th, August, 2010, organized by Centre for Bioseparation Technology (CBST), VIT University, Vellore, Tamil Nadu, India.
- Presented paper in National Level Seminar on “Human Related Zoology” on 15th September 2008, Organized by the Department of Zoology, Sri Ramakrishna Degree (Autonomous) College, Nandyal-518501, Kurnool (Dt), Andhra Pradesh.
- Participated in “1st CME programme on stem cells” organized by the Department of Pathology, Govt Medical College, Anantapur and RDT Hospitals held on 23rd, November, 2008 at Government Medical College, Anantapur, Andhra Pradesh, India.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: 1

5.2. Articles/Chapters published in Books: Nil

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided:

a) UG: 13 b) PG: 3

5.5. Research Interests:

- Organic Synthesis
- Medicinal Chemistry
- Diabetes
- Nanocatalysis
- Phytochemistry
- Photocatalysis
- Biocatalysis (Enzyme based)
- Drug Delivery Systems
- Computational Drug Design
- Nanocomposites
- Polymer Chemistry

5.6. Ph.D students:-

a) Enrolled: 2 b) Submitted: Nil c) Awarded: Nil

5.7. Papers published in reviewed journals:

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Biocatalytic One Pot Three Component Approach: Facile Synthesis, Characterization, Molecular modelling and Hypoglycemic Studies of New Thiazolidinedione Fused Quinoline Analogues Catalyzed by Alkaline Protease from	Bioorganic Chemistry, 119, 105533	0045-2068	5.275	International
2	Review on metal nanoparticles as nanocarriers: current challenges and perspectives in drug delivery systems.	Emergent Materials	2522-574X	Scopus	International
3	Ultrasound Promoted Montmorillonite K-10 Catalyzed Synthesis,	Journal of Molecular structure, 1242, 130828	0022-2860	3.196	International

	Characterization, Molecular Modelling, SAR and Hypoglycemic Studies of New Rhodanine Bejeweled Acridine Analogues				
4	Visible Light Induced Nano Copper Catalyzed One Pot Synthesis of Novel Quinoline Bejeweled Thiobarbiturates as Potential hypoglycemic agents.	Journal of Heterocyclic Chemistry, 58 (7), 1446-1460	0022-152X	2.193	International
5	An Efficient Nano-Copper Catalyzed Base-free Knoevenagel Condensation: A Facile Synthesis, Molecular Modelling Simulations, SAR and Hypoglycemic Studies of New Quinoline tethered Acridine analogues as PPAR- γ Agonists.	Journal of Molecular Structure, 1220, 128601	0022-2860	3.196	International
6	Microwave assisted amberlite-IRA-402 (OH) ion exchange resin catalyzed synthesis of new benzoxazole scaffolds derived from antiinflammatory drugs aceclofenac and mefenamic acid as potential therapeutic agents for inflammation.	Journal of Molecular Structure, 1200, 127092	0022-2860	3.196	International
7	Synthesis, molecular modeling and pharmacological evaluation of new 2-substituted benzoxazole derivatives as potent antiinflammatory agents.	Structural Chemistry, 31, 263-273.	1572-9001	1.887	International

8	Evaluation of larvicidal potential of β -sitosterol isolated from indigenous <i>Aegle marmelos</i> Correa crude leaf extracts against blood feeding parasites and its binding affinity studies towards sterol carrier protein	Biocatalysis & Agricultural Biotechnology, 16, 586-593.	1878-8181	3.90	International
9	Vanadium Cluster Based Inorganic-Organic Covalent Hybrids: Synthesis, Structure and In-Vitro Antioxidant Properties	Chemistry Select, 2, 11235-11239.	2365-6549	2.10	International
10	Lipases: An over-view on its current challenges and perspectives in the revolution of biocatalysis.	Biocatalysis & Agricultural Biotechnology, 7, 257-270.	1878-8181	3.90	International
11	Novel synthesis of process related impurities of Valganciclovir Hydrochloride.	International Journal of Pharmacy and Pharmaceutical Sciences, 8, 29-31.	0975-1491	Scopus	International
12	Nickel nanoparticles: A highly efficient and retrievable catalyst for the solventless friedlander annulation of quinolines and their insilico molecular docking studies for its anticancer efficacy as histone deacetylase inhibitors.	RSC Advances, 5, 45599-45610.	2394-5125	3.36	International
13	Synthesis and docking studies of novel quinoline substituted thiobarbituric acid derivatives as potential therapeutic agents for Type-II	Journal of Indian Chemical Society, 92, 918-920.	2046-2069	0.284	International

	diabetes.				
14	Synthesis, characterization and pharmacological studies of novel isocoumarins derived from two anti-inflammatory drugs - Diclofenac and Aceclofenac.	Journal of Indian Chemical Society, 92, 603-607.	1551-7616	0.284	International
15	Synthesis of new pyrimidine derivatives via 1,3 dipolar cycloaddition and their in-silico molecular docking studies as thymidylate synthase inhibitors.	Der Pharmacia Lettre, 7, 45-52	0975-5091	Scopus	International
16	HPLC method development and validation for simultaneous estimation of Olmesartan Medoxomil, Hydrochlorothiazide and Amlodipine Besylate tablets.	Der Pharmacia Lettre, 7, 182-196	0975-5091	Scopus	International
17	One-step biofabrication of copper nanoparticles from Aegle Marmelos Correa aqueous leaf extract and evaluation of its antiinflammatory and mosquito larvicidal efficacy.	RSC Advances, 4, 51459-51470	2394-5125	3.360	International
18	In-vitro anti-inflammatory and mosquito larvicidal efficacy of nickel nanoparticles phytofabricated from aqueous leaf extracts of Aegle Marmelos Correa.	Acta Tropica, 135, 19-26.	0001-706X	3.112	International

19	Microwaveassisted solid acid-catalyzed synthesis of quinolinyl quinolinones and evaluation of their antibacterial, antioxidant activities.	Research on Chemical Intermediates, 41, 4899-4912.	1568-5675	2.914	International
20	A review on nickel nanoparticles as effective therapeutic agents for inflammation.	Inflammation & Cell Signaling, 1, e271.	2330-7803	Scopus	International
21	Transdermal Nanocarriers: New Challenges and Prospectives in the Treatment of Diabetes Mellitus.	Journal of Chemistry and Applied Biochemistry, 1, 107.	2248-9622	Scopus	National
22	In-vitro antioxidant and antibacterial studies of betacyanin isolated from the bracts of bougainvillea glabra.	International Journal of Pharmacy and Pharmaceutical Sciences, 5, 84.	0975-1491	Scopus	International
23	In-vitro anthelmintic and antioxidant activity of crude leaf extracts of Aegle Marmelos Correa.	Universal Journal of Pharmacy, 2, 85-91	2320-303X	-	National
24	Molecular Modelling and in Vitro Hypoglycemic Examination of Polysubstituted Quinoline Derivatives	International Journal of Engineering and Advanced Technology (IJEAT), 9 (1S4), 230-233.	2249-8958	Scopus	International
25	Phytochemical Screening, Spectroscopic Examination and Antimicrobial Evaluation of PHE (Poly Herbal Extract) of Selected Indian Medicinal Herbs	International Journal of Innovative Technology and Exploring Engineering (IJITEE), 9 (2S2), 726-731.	2278-3075	Scopus	International
26	Calcium D-Pantothenate as Green	International Journal of Innovative Technology and	2278-3075	Scopus	International

	Corrosion Inhibitor on Mild Steel in 240 ppm NaCl Solution	Exploring Engineering (IJITEE), 9 (2S2), 435-442.			
27	Nutritive Analysis of Cicer Arietinum Via Colorimetry	International Journal of Innovative Technology and Exploring Engineering (IJITEE), 9 (2S2), 249-252.	2278-3075	Scopus	International
28	Phytochemical Screening and Pharmacological Examination of Persia Americana Mill (Avocado) Crude Seed Extracts	International Journal of Recent Technology and Engineering (IJRTE), 8 (4S2), 500-504.	2277-3878	Scopus	International
29	Treatability of a used Lube Oil from Contaminated Soil	International Journal of Recent Technology and Engineering (IJRTE), 8 (4S2), 467-471.	2277-3878	Scopus	International

5.8. Papers presented at National / International Journals:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Synthesis, Pharmacological evaluation of new 2-substituted benzoxazole scaffolds as selective inhibitors of PGHS.	International conference on Recent Advances in Technology, Engineering and Science (ICRATES'16) at C. Abdul Hakeem College of Engg. And Tech., Melvisharam, Vellore, Tamilnadu, India.	International	27 th & 28 th July, 2016
2	Synthesis of quinoline substituted 2,4-Thiazolidinediones as potential therapeutic agents for type-II diabetes.	International Seminar on "3D – Approaches in Combinatorial Chemistry : Challenges and Perspectives" organized by Arulmigu Kalasalingam College of Pharmacy, Krishnankoil, Tamilnadu in association with Dr.M.G.R. Medical University.	International	28 th February 2018.
3	Design, synthesis and in-vivo hypoglycemic studies of new quinoline substituted thiazolidinediones as a potential therapeutic agents for inflammation.	International Conference on Recent Discoveries of Diabetic Biomarkers and Challenges Ahead" (Organized by the School of Life Sciences, B.S.Abdur Rahaman University, Vandalur, Chennai India. Sponsored by ICMR and DST (SERB))	International	2 nd and 3 rd , March - 2015.

4	Design, synthesis and in-silico molecular docking studies of quinoline substituted thiobarbituric acid derivatives.	International Conference on Emerging Trends in Chemical Sciences (IETC-2013)" held in the VIT University, organized by the Chemistry Division, School of Advanced Sciences, VIT University, Vellore.	International	5-7 th , December 2013,
5	Review on novel 2,4-thiazolidinediones as a potential therapeutic agents for type-2 diabetes	First Euro – India International conference on diabetes (EICD-2012) held at kottayam, kerala, India.	International	09 th -11 th April 2012.
6	Synthesis and hypoglycemic studies of new rhodanine derivatives	National Seminar on Technologically Important Crystalline and Amorphous Solids (TICAS-2018) organized by the Department of Physics, Kalasalingam Academy of Research and Education, Krishnankoil.	National	2 nd & 3 rd March 2018.
7	Confirmational Polymorphs of 2-amino-5-nitrobenzophenone: Crystal Structure, Spectroscopic and DFT Approach	Fifth National Conference on Advanced Functional Materials and Applications (NCAFMA-2017) organized by the Department of Chemistry, Kalasalingam University, Tamilnadu, India.	National	30 th & 31 st march- 2017
8	β -Sitosterol induced mosquito larvicidal and in-vitro anthelmintic efficacy of indigenous Aegle Marmelos Correa leaf and fruit extracts and its binding affinity studies towards sterol carrier protein (SCP-2)	National Symposium on Biodiversity (NSBIO 2015)" sponsored by DST-SERB, Organized by the department of zoology, Thiruvalluvar University, Vellore, Tamilnadu	National	18 th to 20 th February 2015
9	Synthesis and in-silico molecular docking studies of new benzoxazole scaffolds as effective therapeutic agents for diabetes.	National Conference on "Frontiers in Chemistry and Environment"(NCFCE-2015), organized by the Department of Chemistry, C.Abdul Hakeem College of Engineering and Technology, Melvisharam, Vellore, Tamilnadu.	National	27 th -28 th March 2015

10	In-vitro anti-inflammatory and mosquito larvicidal efficacy of copper nanoparticles synthesized from Aegle Marmelos Correa aqueous leaf extract.	National Conference on Challenges in Biomaterials Research (NCCBMR-2013)" organized by VIT University, Vellore-632014, Tamilnadu, India.	National	23 th -24 th December 2013.
11	Design and synthesis of new 2-substituted benzoxazole scaffolds and evaluation of their antioxidant and antibacterial activities.	National Seminar on "Recent Trends in Organic Chemistry (NSRTOC)" organized by the Department of Chemistry, S.V.Arts College, TTD's, Tirupati, Andhra Pradesh, India.	National	19 th December, 2013.
12	Synthesis of new benzoxazole derivatives as potential therapeutic agents for inflammation.	National Seminar on Current Research Trends and Developments in Chemical Sciences – 2013 (CRTDS – 2013) at P.V.K.N. Government College, Chittoor-517002. Andhra Pradesh.	National	9 th and 10 th March, 2013.
13	Review from iron oxide nanoparticles towards advanced inorganic materials designed for biomedical applications	One Day National Seminar on New Innovative Ideas in Science and Technology" organized by Karur College of Engineering, Karur-Tamil Nadu.	National	2 nd March, 2012.
14	Novel 2,4-thiazolidinedione derivatives as potential therapeutic agents for type-2 diabetes.	Symposium at the medical hackathon "CAMTech – India Medical Hackathon", organized by the International Consortium on Affordable Medical Technologies - CAMTech at VIT University, Vellore, India.	National	26 th November, 2012
15	Iron oxide nanoparticles and their biomedical applications.	National Seminar on "Indigenous Nanomaterials Development for Industrial Applications" (INDIA) organized by Association of Nanoscience & Nanotechnology Aspirants [ANNA] Centre for Nanoscience and Technology, Anna University, Chennai, Tamilnadu, India.	National	27 th -28 th , February 2012.
16	Review on Marine Natural Products as Anticancer Agents.	National Conference on "Natural Product Research For Health and BioPharma industry" held on 25-	National	25 th -26 th , March 2011.

		26th March 2011, organized by Department of Biotechnology, Kumaraguru College of Technology, Coimbatore, Tamilnadu.		
17	Review on novel 2,4-thiazolidinediones as antidiabetic agents	National Seminar on “Enhancement of Quality in Research Publications and Recent Research in Water, Alternative Energy Resources, Materials and Health (CURIE 2011) by Auxillium Research Cell and Department of Chemistry, Auxillium College (Autonomous), Vellore, Tamilnadu.	National	15 th -16 th , December 2011.
18	Role of nanomaterials in regenerative medicine	National Conference on “Recent Advancements in Nanomaterials for Sensor Applications” organized by Department of Bioelectronics and Biosensors Alagappa University, Karaikudi – 630003	National	8 th -9 th , March 2010.
19	Review on antiviral drugs and current drug therapies	National Level Seminar on “Human Related Zoology” Organized by the Department of Zoology, Sri Ramakrishna Degree (Autonomous) College, Nandyal-518501, Kurnool (Dt), Andhra Pradesh.	National	15 th September 2008.

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
1	Extraction of jasmine sambe absolute and identification of plausible aroma compounds	Venuss Herbo Aromatics Private Limited	01/12/2019-30/11/2021	10,00000/-	Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed
-	-	-	-	-	-

6. Awards / Honors received:

- Received first prize in Inter - Collegiate Debate Competition on “Is Biotechnology a Boon or Bane?” conducted by the Department of Biotechnology, Govt Degree College for Men, Anantapur, A.P on 12th August, 2008.
- Received first prize in Essay Writing Competition on New and Renewable Energy Programmes on the eve of “Rajiv Gandhi Akshaya Urja Diwas” organized by NonConventional Energy Development Corporation of Andhra Pradesh, held on 20th August, 2008.
- Topper of Government Degree College for Men in B.Sc Biochemistry, Anantapur, Andhra Pradesh – 2009.
- Won second prize in National Conference on “Natural Product Research For Health and Bio-Pharma industry” held on 25-26th March 2011, organized by Department of Biotechnology, Kumaraguru College of Technology, Coimbatore, Tamilnadu.
- Won first prize in National Seminar on “Enhancement of Quality in Research Publications and Recent Research in Water, Alternative Energy Resources, Materials and Health (CURIE 2011) held on 15-16th December 2011 by Auxillium Research Cell and Department of Chemistry, Auxillium College (Autonomous), Vellore, Tamilnadu.
- Won second prize in National Seminar on “New Innovative Ideas in Science and Technology” organized by Karur College of Engineering, Karur-Tamil Nadu during 2nd March 2012.
- Won first prize in National Seminar on “Recent Trends in Organic Chemistry (NSRTOC)” organized by the Department of Chemistry, S.V.Arts College, TTD’s, Tirupati on 19th December, 2013.
- Received research award from the management of VIT university for paper publications.
- Received research award from the management of VIT university for paper publications.
- Won travel grant award in International Conference on “Recent Discoveries of Diabetic Biomarkers and Challenges Ahead” [Organized by the School of Life Sciences, B.S.Abdur Rahaman University, Vandalur, Chennai India on 2nd and 3rd, March -2015. Sponsored by ICMR and DST (SERB)].
- Secured topper position in NPTEL online course “Application of Spectroscopic Methods in Molecular Structure Determination” organized by IIT-Madras.
- Received Teaching Competency IQAC award for the year 2017-2018 for effective implementation of course plan from Kalasalingam University.
- Received IQAC Research award for the year 2018-2019 for paper publication from Kalasalingam University.

7. Motto: Hardwork never Fails